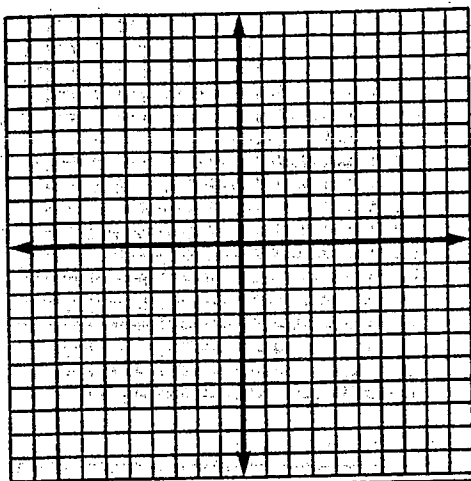


**Graphing Linear Equations**

Graph each equation by plotting points.

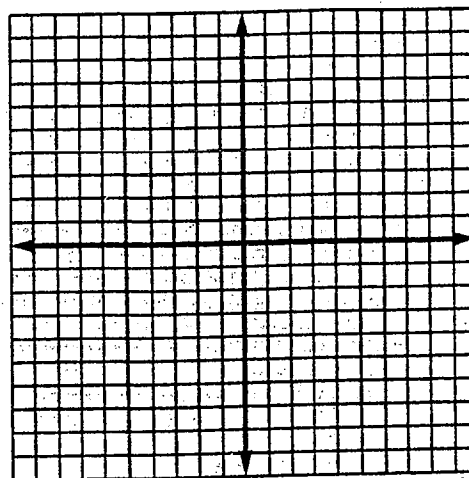
1.  $y = x + 4$

x	y
2	
0	
-3	



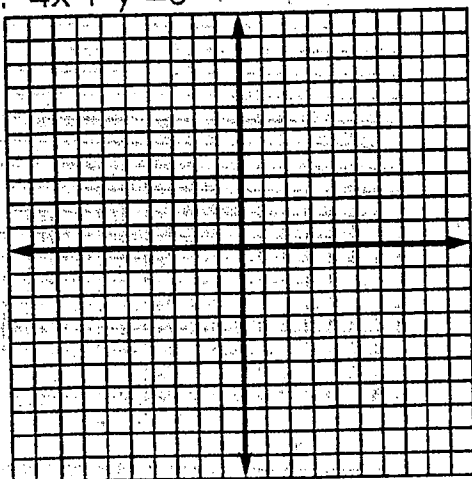
2.  $y = 2x - 7$

x	y
3	
4	
1	



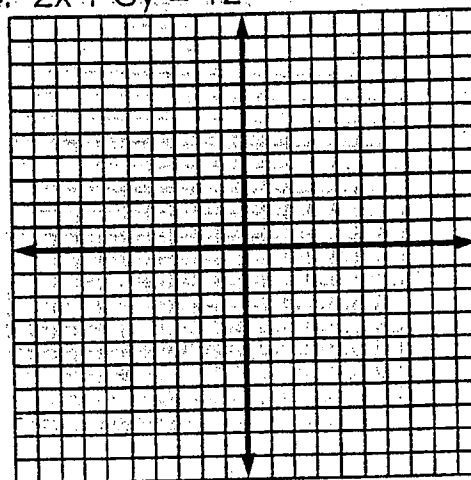
3.  $4x + y = 8$

x	y
0	
1	
2	



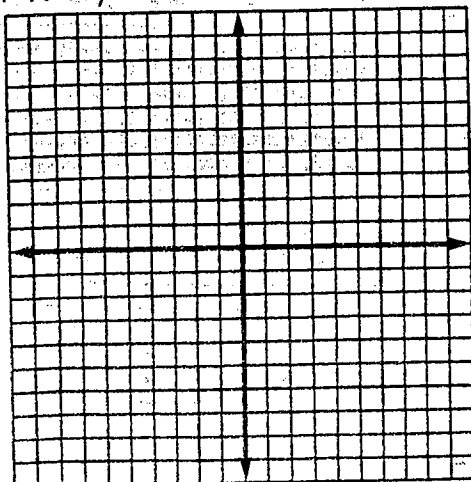
4.  $2x + 6y = 12$

x	y
3	
0	
-3	



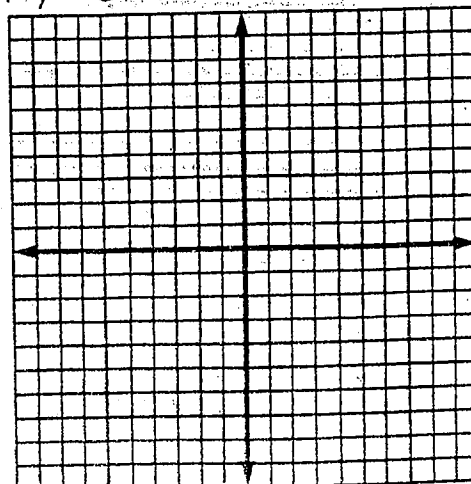
5.  $x + y = 5$

x	y
4	
5	
6	



6.  $y = 6 - x$

x	y
5	
-2	
0	



# Linear Equations and Inequalities



## X and Y Intercepts

I. Find the x and y intercepts.

$$\begin{array}{l} 2x + y = 3 \\ \text{To find x intercept, let } y = 0. \text{ To find y-intercept, let } x = 0. \\ 2x + 0 = 3 \qquad \qquad \qquad 2 \cdot 0 + y = 3 \\ 2x = 3 \qquad \qquad \qquad y = 3 \text{ (0, 3)} \\ x = \frac{3}{2} \quad \left(\frac{3}{2}, 0\right) \end{array}$$

1.  $3x + 4y = 12$

2.  $4x + y = 2$

3.  $5x - 4y = 15$

4.  $2x - 2y = -4$

5.  $3x + y = -9$

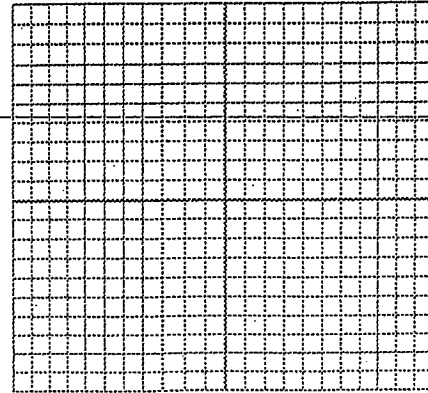
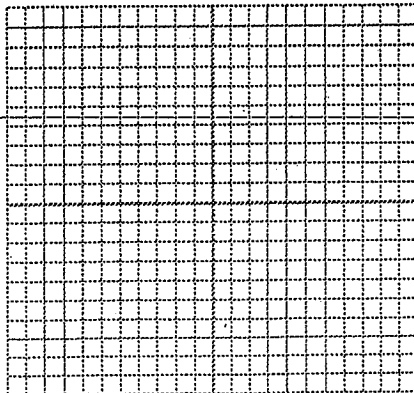
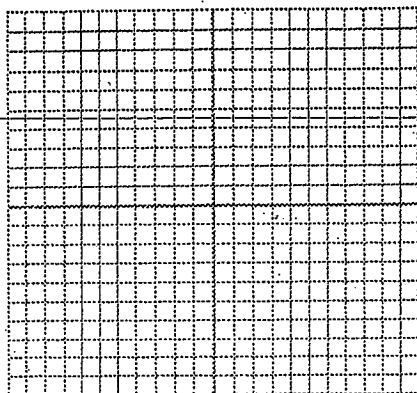
6.  $4x - 2y - 8 = 0$

II. Find the x and y intercepts. Then graph.

7.  $x + 2y = 5$

8.  $2x - 5y = 0$

9.  $4x - 3y = -2$



10.  $3x + 2y = 6$

11.  $5x - 7y = 12$

12.  $8x + 10y = 50$

